

ABSTRACTPROCESS FOR GENERATING A PERFORMANCE MODEL FROM A
FUNCTIONAL MODEL

The invention relates to a process for generating a performance model from a functional model for a system comprising a plurality of distributed hardware and software entities that engage to provide a service to at
5 least one user.

The process according to the invention comprises the following stages:

- Distributing the representative system requests in a finite number of groups and identifying, for each
10 request group, the corresponding execution flow,
- Formalising the execution flows by means of a notation that makes it possible to highlight, on the one hand, the causal relationships between the different software entities of the system that are involved in the
15 execution flows, and on the other hand, the data characterising the system's resource consumption,
- Developing an intermediate model,
- Automating the conversion of the developed intermediate model into a performance model.

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Figure 1.